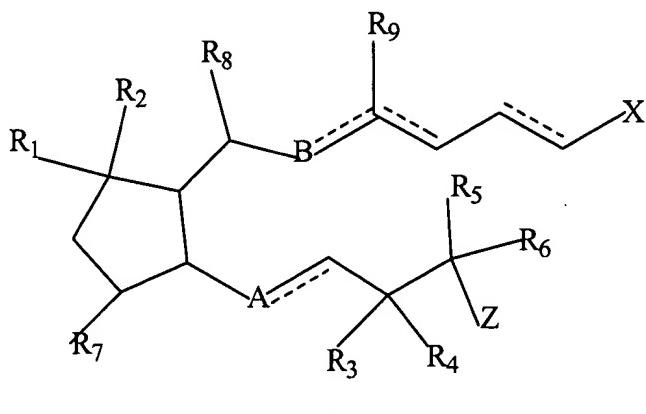


### III. Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application.

#### Listing of Claims:

1. (Canceled)
2. (Currently Amended) A compound of formula (I) or a pharmaceutically acceptable salt thereof, wherein the compound of formula (I) is:



(I)

wherein the dotted lines indicate a single or a double bond;

R<sub>1</sub> is -OD<sub>1</sub> or -Cl;

R<sub>2</sub> and R<sub>8</sub> are a hydrogen; or R<sub>1</sub> and R<sub>2</sub> taken together are =CH<sub>2</sub> or =O;

R<sub>3</sub> and R<sub>4</sub> are each independently a hydrogen, -OD<sub>1</sub> or -CH<sub>3</sub>;

R<sub>5</sub> and R<sub>6</sub> are each independently a hydrogen, -OD<sub>1</sub>, -CH<sub>3</sub>, -OCH<sub>3</sub> or -CH=CH<sub>2</sub>;

R<sub>7</sub> is a hydrogen or -OD<sub>1</sub>;

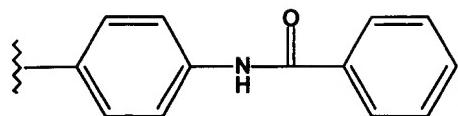
R<sub>9</sub> is hydrogen or absent when the carbon to which it is attached is the central carbon of an allene functionality; or R<sub>8</sub> and R<sub>9</sub> taken together with the chain to which they are attached form a substituted benzene ring ~~with the proviso that R<sub>4</sub> is an oxygen atom which is attached to the carbon atom at the position of the benzene ring defined by B;~~

A is -CH=, -CH<sub>2</sub>, -S-, or -O-;

B is -CH=, -CH<sub>2</sub>, -S-, or -C(O)-;

X is -CH<sub>2</sub>OR<sub>11</sub>, -C(O)OR<sub>11</sub> or -C(O)N(D<sub>1</sub>)R<sub>12</sub>;

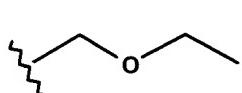
R<sub>11</sub> is D<sub>1</sub>, a lower alkyl group, or



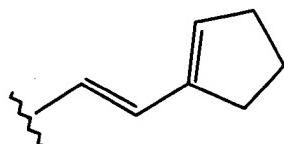
R<sub>12</sub> is -S(O)<sub>2</sub>CH<sub>3</sub> or -C(O)CH<sub>3</sub>;

Z is (a) an ethyl, (b) a butyl, (c) a hexyl, (d) a benzyl,

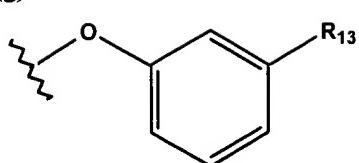
(e)



(f)

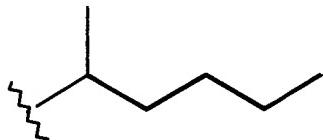


(g)



(h)

or



R<sub>13</sub> is a hydrogen or -Cl;

D<sub>1</sub> is a hydrogen or D; with the proviso that at least one D<sub>1</sub> in formula (I) must be D;

D is Q or K;

Q is -NO or -NO<sub>2</sub>;

K is -W<sub>a</sub>-E<sub>b</sub>-(C(R<sub>e</sub>)(R<sub>f</sub>))<sub>p</sub>-E<sub>c</sub>-(C(R<sub>e</sub>)(R<sub>f</sub>))<sub>x</sub>-W<sub>d</sub>-(C(R<sub>e</sub>)(R<sub>f</sub>))<sub>y</sub>-W<sub>i</sub>-E<sub>j</sub>-W<sub>g</sub>-(C(R<sub>e</sub>)(R<sub>f</sub>))<sub>z</sub>-T-Q;

~~with the proviso that when X is -C(O)OD<sub>1</sub> and D<sub>1</sub> is K, then K is not an alkyl, branched alkyl or cycloalkyl mononitrate; a benzoic acid substituted benzyl oxy mononitrate; the regioisomeric esters of glycerol dinitrate and oligomers thereof;~~

a, b, c, d, g, i and j are each independently an integer from 0 to 3;

p, x, y and z are each independently an integer from 0 to 10;

W at each occurrence is independently -C(O)-, -C(S)-, -T-, -(C(R<sub>e</sub>)(R<sub>f</sub>))<sub>h</sub>-, an alkyl group, an aryl group, a heterocyclic ring, an arylheterocyclic ring, or -(CH<sub>2</sub>CH<sub>2</sub>O)<sub>q</sub>-;

E at each occurrence is independently -T-, an alkyl group, an aryl group, -(C(R<sub>e</sub>)(R<sub>f</sub>))<sub>h</sub>-, a heterocyclic ring, an arylheterocyclic ring, or -(CH<sub>2</sub>CH<sub>2</sub>O)<sub>q</sub>-;

h is an integer form 1 to 10;

q is an integer from 1 to 5;

R<sub>e</sub> and R<sub>f</sub> are each independently a hydrogen, an alkyl, a cycloalkoxy, a halogen, a hydroxy, an hydroxyalkyl, an alkoxyalkyl, an arylheterocyclic ring, an alkylaryl, a cycloalkylalkyl, a heterocyclicalkyl, an alkoxy, a haloalkoxy, an amino, an alkylamino, a dialkylamino, an arylamino, a diarylamino, an alkylarylamino, an alkoxyhaloalkyl, a haloalkoxy, a sulfonic acid, a sulfonic ester, an alkylsulfonic acid, an arylsulfonic acid, an arylalkoxy, an alkylthio, an arylthio, a cycloalkylthio, a cycloalkenyl, a cyano, an aminoalkyl, an aminoaryl, an aryl, an arylalkyl, an alkylaryl, a carboxamido, a alkylcarboxamido, an arylcarboxamido, an amidyl, a carboxyl, a carbamoyl, a carbamate, an alkylcarboxylic acid, an arylcarboxylic acid, an alkylcarbonyl, an arylcarbonyl, an ester, a carboxylic ester, an alkylcarboxylic ester, an arylcarboxylic ester, a haloalkoxy, a sulfonamido, an alkylsulfonamido, an arylsulfonamido, a sulfonic ester, a urea, a phosphoryl, a nitro, -T-Q, or R<sub>e</sub> and R<sub>f</sub> are -(C(R<sub>e</sub>)(R<sub>f</sub>))<sub>k</sub>-T-Q, wherein R<sub>e</sub> and R<sub>f</sub> are as defined herein, or R<sub>e</sub> and R<sub>f</sub> taken together with the carbons to which they are attached form a carbonyl, a methanthial, a heterocyclic ring, a cycloalkyl group or a bridged cycloalkyl group;

k is an integer from 1 to 3;

T at each occurrence is independently a covalent bond, a carbonyl, an oxygen, -S(O)<sub>o</sub>- or -N(R<sub>a</sub>)R<sub>i</sub>-;

o is an integer from 0 to 2;

R<sub>a</sub> is a lone pair of electrons, a hydrogen or an alkyl group;

R<sub>i</sub> is a hydrogen, an alkyl, an aryl, an alkylcarboxylic acid, an arylcarboxylic acid, an alkylcarboxylic ester, an arylcarboxylic ester, an alkylcarboxamido, an arylcarboxamido, an alkylaryl, an alkylsulfinyl, an alkylsulfonyl, an arylsulfinyl, an arylsulfonyl, a sulfonamido, a carboxamido, a carboxylic ester, an amino alkyl, an amino aryl, -CH<sub>2</sub>-C(T-Q)(R<sub>e</sub>)(R<sub>f</sub>), or -(N<sub>2</sub>O<sub>2</sub>)<sup>-</sup>•M<sup>+</sup>, wherein M<sup>+</sup> is an organic or inorganic cation; with the proviso that when R<sub>i</sub> is -CH<sub>2</sub>-C(T-Q)(R<sub>e</sub>)(R<sub>f</sub>) or -(N<sub>2</sub>O<sub>2</sub>)<sup>-</sup>•M<sup>+</sup>, or R<sub>e</sub> or R<sub>f</sub> are T-Q or R<sub>e</sub> and R<sub>f</sub> are -(C(R<sub>e</sub>)(R<sub>f</sub>))<sub>k</sub>-T-Q, wherein R<sub>e</sub> and R<sub>f</sub> are as defined herein, then the "-T- Q" subgroup can be a hydrogen, an alkyl, an alkoxy, an alkoxyalkyl, an aminoalkyl, a hydroxy, a heterocyclic ring or an aryl group;

with the proviso that the compound of formula (I) has at least one NO group or at least three NO<sub>2</sub> groups linked through an oxygen atom, a nitrogen atom or a sulfur atom.

3. (Currently amended) The compound of claim 2, wherein the compound of formula (I) is a nitrosated arbaprostil, a nitrosylated arbaprostil, a nitrosated and nitrosylated arbaprostil, a nitrosated alprostadil, a nitrosylated alprostadil, a nitrosated and nitrosylated alprostadil, a nitrosated carboprost, a nitrosylated carboprost, a nitrosated and nitrosylated carboprost, a nitrosated cloprostenol, a nitrosylated cloprostenol, a nitrosated and nitrosylated cloprostenol, a nitrosated dimoxaprost, a nitrosylated dimoxaprost, a nitrosated and nitrosylated dimoxaprost, a nitrosated enprostil, a nitrosylated enprostil, a nitrosated and nitrosylated enprostil, a nitrosated enisoprost, a nitrosylated enisoprost, a nitrosated and nitrosylated enisoprost, a nitrosated fenprostalene, a nitrosylated fenprostalene, a nitrosated and nitrosylated fenprostalene, a nitrosated gemeprost, a nitrosylated gemeprost, a nitrosated and nitrosylated gemeprost, a nitrosated latanoprost, a nitrosylated latanoprost, a nitrosated and nitrosylated latanoprost, a nitrosated meteneprost, a nitrosylated meteneprost, a nitrosated and nitrosylated meteneprost, a nitrosated mexiprostil, a nitrosylated mexiprostil, a nitrosated and nitrosylated mexiprostil, a nitrosated misoprostol, a nitrosylated misoprostol, a nitrosated and nitrosylated misoprostol, a nitrosated misoprostol acid, a nitrosylated misoprostol acid, a nitrosated and nitrosylated misoprostol acid, a nitrosated nocloprost, a nitrosylated nocloprost, a nitrosated and nitrosylated nocloprost, a nitrosated ornoprostil, a nitrosylated ornoprostil, a nitrosated and nitrosylated ornoprostil, a nitrosated prostalene, a nitrosylated prostalene, a nitrosated and nitrosylated prostalene, a nitrosated PGE<sub>1</sub>, a nitrosylated PGE<sub>1</sub>, a nitrosated and nitrosylated PGE<sub>1</sub>, a nitrosated PGE<sub>2</sub>, a nitrosylated PGE<sub>2</sub>, a nitrosated and nitrosylated PGE<sub>2</sub>, a nitrosated PGF<sub>1</sub>, a nitrosylated PGF<sub>1</sub>, a nitrosated PGF<sub>2α</sub>, a nitrosylated PGF<sub>2α</sub>, a nitrosated and nitrosylated PGF<sub>2α</sub>, a nitrosated rioprostil, a nitrosylated rioprostil, a nitrosated and nitrosylated rioprostil, a nitrosated rosaprostol, a nitrosylated rosaprostol, a nitrosated and nitrosylated rosaprostol, a nitrosated remiprostol, a nitrosylated remiprostol, a nitrosated and nitrosylated remiprostol, a nitrosated sulprostone, a nitrosylated sulprostone, a nitrosated and nitrosylated sulprostone, a nitrosated trimoprostil, a nitrosylated trimoprostil, a nitrosated and nitrosylated trimoprostil, a nitrosated tiprostanide, a nitrosylated tiprostanide, a nitrosated and nitrosylated tiprostanide, a nitrosated unoprostone, or a nitrosylated unoprostone, a nitrosated and nitrosylated unoprostone, or a mixture thereof.

4. (Previously Presented) A composition comprising the compound of claim 2 and a pharmaceutically acceptable carrier.

5 -116. (Canceled)

117. (Currently Amended) A nitrosylated arbaprostil, Arbaprostil, a nitrosylated alprostadil, a nitrosylated carboprost, a nitrosylated cloprostenol, a nitrosylated dimoxaprostan, a nitrosylated enprostil, a nitrosylated enisoprost, a nitrosylated fenprostalene, a nitrosylated gemeprost, a nitrosylated latanoprost, a nitrosylated meteneprost, a nitrosylated mexiprostan, a nitrosylated misoprostol, a nitrosylated misoprostol acid, a nitrosylated nocloprostan, a nitrosylated ornoprostil, a nitrosylated prostalene, a nitrosylated PGE<sub>1</sub>, a nitrosylated PGE<sub>2</sub>, a nitrosylated PGF<sub>1</sub>, a nitrosylated PGF<sub>2a</sub>, a nitrosylated rioprostil, a nitrosylated rosaprostol, a nitrosylated remiprostol, a nitrosylated sulprostone, a nitrosylated trimoprostil, a nitrosylated tiprostanide, a nitrosylated unoprostone, or a pharmaceutically acceptable salt thereof, comprising at least one NO group; wherein the at least one NO group is linked to the arbaprostil, alprostadil, carboprost, cloprostenol, dimoxaprostan, enprostil, enisoprost, fenprostalene, gemeprost, latanoprost, meteneprost, mexiprostan, misoprostol, misoprostol acid, nocloprostan, ornoprostil, prostalene, PGE<sub>1</sub>, PGE<sub>2</sub>, PGF<sub>1</sub>, PGF<sub>2a</sub>, rioprostil, rosaprostol, remiprostol, sulprostone, trimoprostil, tiprostanide; or unoprostone, or through an oxygen atom, a nitrogen atom or a sulfur atom.